Amendments to the Claims:

- 1. (Currently Amended) A method of detecting an activity of an antibiotic, in a sample, the method comprising the steps of:
- (a) providing a microorganism in which a first endogenous gene encoding peptidyltransferase activity is inactivated, which activity is necessary for growth of the microorganism, and which activity can be complemented by a second, different, peptidyltransferase, which second peptidyltransferase is inducible in the microorganism by the presence of the antibiotic.
- (b) contacting the sample with the microorganism, and
- (c) observing the microorganism for growth, wherein growth of the microorganism is correlated with the presence of the antibiotic.
- 2. (Currently Amended) A-The method of as claimed in claim 1 wherein the antibiotic is a glycopeptide antibiotic which interferes with the physical integrity of the cell envelope.
- 3. (Currently Amended) A-The method of as claimed in claim 1 or claim 2 wherein the second peptidyltransferase is endogenous.
- 4. (Currently Amended) A-<u>The</u> method <u>of as claimed in any one of the preceding claims claim 1</u> wherein the peptidyltransferase activity is nonribosomal and operates on a substrate in the cell involved in cross-bridge formation of the microorganism cell wall.
- 5. (Currently Amended) A-The method of as elaimed in claim 4 wherein the peptidyltransferase activity adds a single glycine to a stem pentapeptide substrate which can form a cross-bridge through D-ala transpeptidation.
- 6. (Currently Amended) A-The method of as claimed in claim 5 wherein the first peptidyltransferase acts on a stem pentapeptide substrate which terminates D-ala-D-ala.
- 7. (Currently Amended) A-The method of as claimed in claim 6 wherein the first endogenous gene encoding peptidyltransferase activity is femX (SC03904).
- 8. (Currently Amended) A-The method as claimed in any one of claims 5 to 7 wherein the second peptidyltransferase acts on a stem pentapeptide substrate which terminates D-ala-D-lac.
- 9. (Currently Amended) A-The method of as claimed in claim 8 wherein the second peptidyltransferase is encoded by *vanF* (SC03593).
- 10. (Currently Amended) A-<u>The</u> method as claimed in any one of claims 5 to 9 wherein the presence of the antibiotic in the sample induces additional enzymes which modify stem pentapeptide cell wall precursors such as to provide a substrate for the second peptidyltransferase.
- 11. (Currently Amended) A-The method of-as claimed in claim 10 wherein the additional enzymes may be present in the same genomic cluster as the second peptidyltransferase.
- 12. (Currently Amended) A-The method of as claimed in claim 10 wherein the additional enzymes are vanHAX enzymes encoded by vanH (SC03594); vanA (SC03595); or vanX (SC03596).

- 13. (Currently Amended) A-<u>The</u> method <u>of-as-claimed in any one of the preceding claims claim 1</u> wherein the bacterium is an actinomycete.
- 14. (Currently Amended) A-The method of as claimed in claim 13 wherein the bacterium is Streptomyces.
- 15. (Currently Amended) A-The method of as claimed in claim 14 wherein the bacterium is Streptomyces coelicolor.
- 16. (Currently Amended) A-The method of as claimed in claim 15 wherein the bacterium is Streptomyces coelicolor A3 (2).
- 17. (Currently Amended) A The method as claimed in any one of claims 2 to 16 wherein the microorganism is a strain in which enzymes which may otherwise degrade glycopeptidic antibiotics have been inactivated.
- 18. 20. Canceled.
- 21. (Currently Amended) A process of producing a microorganism for use in a-the method of any-one of the preceding-claims 1, which process comprises inactivating in the microorganism a first endogenous gene encoding peptidyltransferase activity, wherein said activity is necessary for growth of the microorganism, and wherein said activity can be substituted by a second, different, peptidyltransferase, which second peptidyltransferase is inducible in the microorganism by the presence of an antibiotic.
- 22. (Currently Amended) A-<u>The</u> process <u>of</u>-as-claimed in claim 21 wherein the first endogenous gene encoding peptidyltransferase activity is inactivated by introducing therein a heterologous market sequence.
- 23. (Currently Amended) A The process of as claimed in claim 21 or claim 22 wherein the second peptidyltransferase is endogenous.
- 24. (Currently Amended) A-The process of as claimed in claim 21 or claim 22 wherein the microorganism is transformed with a gene encoding the second peptidyltransferase.
- 25. (Currently Amended) A process of producing an isolated antibiotic which affects cell integrity, which method comprises the steps of:
- (a) performing a method according to any one of claims 1 to 20 such as to identify the activity of the antibiotic in a sample, and
 - (b) isolating the antibiotic form the sample.
- 26. (Currently Amended) A-The process of as claimed in claim 25 which is preceded by the step of providing a transformed microorganism according to the process of any one of claims 21 to 24.
- 27. (Currently Amended) A microorganism for use in a the method of any one of claims 1 to 20, which microorganism is characterized in that it includes a first endogenous gene encoding peptidyltransferase activity which is inactivated, which activity is necessary for growth of the microorganism, and which activity can be substituted by a second, different, peptidyltransferase, which second peptidyltransferase is inducible in the microorganism by the presence of the antibiotic.

- 28. (Currently Amended) A system for detecting an activity of an antibiotic in a sample comprising:
- (a) the transformed microorganism of claim 27, and
- (b) means for detecting the viability of the microorganism in the presence of the antibiotic.
- 29. (Currently Amended) A kit for performing a-the method according to any one of claims 1 to 20, which wherein the kit comprises a preparation of the microorganism of claim 27, plus a further means for carrying out the contact or observation steps.